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DEPARTMENT OF THE INTERIOR
HUBERT WORK, Secretary

UNITED STATES GEOLOGICAL SURVEY
GEORGE OTIS SMITH, Director

BULLETIN 746

GEOLOGIC LITERATURE ON NORTH AMERICA

1785–1918

BY

JOHN M. NICKLES

POLITECHNIKA GDAŃSKA ZAKŁAD GEOLOGII

PART I. BIBLIOGRAPHY

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WASHINGTON
GOVERNMENT PRINTING OFFICE
1923

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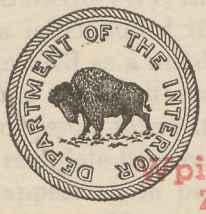
BY

JOHN M. NICKLES

POLITECHNIKA GDAŃSKA
ZAKŁAD GEOLOGII

PART I. BIBLIOGRAPHY

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1923

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GEOLOGIC LITERATURE ON NORTH AMERICA, 1785-1918.

By JOHN M. NICKLES.

POLITECHNIKA GDAŃSKA ZAKŁAD GEOLOGII

PART I. BIBLIOGRAPHY.

INTRODUCTION.

The bibliography forming Part I of this compilation includes papers relating to the geology, paleontology, petrology, and mineralogy of North America—specifically, the United States, the Dominion of Canada and Newfoundland, the Arctic regions north of the continent, Greenland, Mexico, Central America, Panama, and the West Indies, including Trinidad—and also the Hawaiian Islands. Geographic and descriptive writings and accounts of travels with incidental mention of geologic facts are not included. Textbooks published in America and works general in character by American authors are given, but general papers by foreign writers are excluded unless they have appeared in American publications. Papers by American writers on the geology of other parts of the world are not listed.

The papers of each author are listed in chronologic order by years with no definite order of arrangement in a year. For reference from Part II, the index (Bulletin 747), the last two figures of the year of publication, with a letter added if there is more than one paper in the year, have been used as a number placed in black-faced type before a title. The date on the title page of a publication has been accepted as the date of issue unless it is known to be grossly erroneous; in that case the real date has been added in brackets. In references to publications appearing in parts the date of the part cited has been used if it is given. If no date appears on a publication, the year of issue has been supplied and placed in brackets at the end of the citation; for a few publications, even the approximate year of issue could not be ascertained.

This compilation is in the main a cumulation of the series of bibliographies of North American geology issued by the United States Geological Survey as Bulletins 44 (1886), 75 (1887–89), 91 (1890), 99 (1891), included in 127 (1732–1891); 130, 135, 146, 149, 156, 162,

and 172, cumulated in 188 and 189 (1892–1900); 203, 221, 240, and 271, cumulated in 301 (1901–1905); and 372 (1906–07), 409 (1908), 444 (1909), 495 (1910), 524 (1911), 545 (1912), 584 (1913), 617 (1914), 645 (1915), 665 (1916), 684 (1917), and 698 (1918), not previously cumulated. Many titles not found in these bulletins have been added as a result of the examination of the bibliographies on particular subjects issued by the Survey and many other special bibliographies and from other sources. It is hoped that little of importance has been overlooked.

The magnitude of the work has compelled the elimination of all but the title of the paper, from which unimportant parts have been omitted, and the citation, which has been greatly abbreviated. In the citation of serials a colon immediately follows the number of the volume and is immediately followed by the figures for the inclusive pages. If the volume is in a numbered series other than the first, this number is in parentheses immediately before the volume number. The year of publication is placed in parentheses at the end of the citation. Between the pages and the date "il" means figures of fossils and "map" that a geologic map forms part of the paper or accompanies it. For independent publications the number of pages, the place of publication and date, not in parentheses, are given. An explanation of the abbreviations used follows.

LIST OF ABBREVIATIONS.

Abh..... Abhandlungen
abst..... abstract
Ac..... academy
Agr..... agriculture, etc.
Ak..... Akademie
Ala..... Alabama
Alta..... Alberta
Am..... America, etc.
An..... annals, annual, etc.
Anz..... Anzeiger
App..... appendix
Ariz..... Arizona
Ark..... Arkansas
As..... association
B..... bulletin, boletín, etc.
B C..... British Columbia
Bd..... board
Beitr..... Beiträge
Ber..... Berichte
Bien..... biennial
Bot..... botany, etc.
Br..... branch
Brit..... British
Bur..... bureau
c..... copyright
C R..... compte rendu
Cal..... California
Can..... Canada; Canadian
Centr..... Centralblatt
Cin..... Cincinnati
Co..... county
Col..... collection
Coll..... college
Colo..... Colorado
Cong..... congress
Conn..... Connecticut
cos..... counties
Contr..... contributions
D C..... District of Columbia
Del..... Delaware
Deut..... deutsch, etc.
Diss..... dissertation
Dp..... department
Doc..... document, etc.
Ed..... edition, editor, etc.
Eng..... engineering
Ex..... executive
Exp Sta... experiment station
Extr..... extract
Fla..... Florida
G..... geology, etc.
G S..... geological survey
g s..... geological series
Ga..... Georgia
Geog..... geography, etc.
Ges..... Gesellschaft
H Ex Doc. House executive document
Hdbk..... handbook
Hist..... history
I..... institute, institution
I..... illustrated with figures of fossils
Ill..... Illinois
Inaug..... inaugural
Ind..... Indiana
Ind T..... Indian Territory
Inst..... institute, institution
Int..... international
J..... journal, etc.
Jb..... Jahrbuch
Jber..... Jahresbericht
Jg..... Jahrgang
K..... kaiserlich, königlich, etc.
Kans..... Kansas
Ky..... Kentucky
L..... London
La..... Louisiana
M..... mining; mineral
Mag..... magazine
Manit..... Manitoba
Mass..... Massachusetts
Mber..... Monatsberichte
Md..... Maryland
Me..... Maine
Mem..... memoirs
Mex..... Mexico
Mich..... Michigan
Min..... mineral
Miner..... mineralogy, etc.
Minn..... Minnesota
Miss..... Mississippi

Mitt..... Mitteilungen
Mo..... Missouri; monthly
Mon..... monograph
Mont..... Montana
Mus..... museum
N..... new; north; etc.
N B..... New Brunswick
N C..... North Carolina
n d..... no date of publication given
N Dak.... North Dakota
N H..... New Hampshire; natural history
N J..... New Jersey
N Mex.... New Mexico
n p..... no place of publication given; nouvelle période
N S..... Nova Scotia
n s..... new series
N Sc..... natural science
N W Ter.. Northwest Territories
N Y..... New York
Nat..... national; naturalist
Nebr..... Nebraska
Nev..... Nevada
Newf..... Newfoundland
Oc P..... occasional papers
Okla..... Oklahoma
Ont..... Ontario
Oreg..... Oregon
P..... papers
P E I..... Prince Edward Island
P P..... professional paper
Pa..... Pennsylvania
Phila..... Philadelphia
pls..... plates
port..... portrait
pp..... pages
Pr..... proceedings
priv pr.... privately printed
priv pub.. private publication
pt..... part
Pub..... publications
Q..... quarterly
Que..... Quebec
R..... royal.
R I..... Rhode Island.
rev ed..... revised edition.
Rp..... report.
Rv..... review, revista, etc.
s..... series
S..... Senate; south
S C..... South Carolina
S Dak..... South Dakota
Sask..... Saskatchewan
Sc..... science, scientific, etc.
sc s..... science series
Sch..... school
sec..... section
sess..... session
St..... Saint; State
St L..... St. Louis
Szb..... Sitzungsberichte
Tech..... technology, etc.
Tenn..... Tennessee
Tex..... Texas
Tr..... transactions
Transl..... translated, etc.
U S..... United States
Univ..... university
v..... volume
Va..... Virginia
Ver..... Verein
Verh..... Verhandlungen
Vt..... Vermont
vol..... volume
W I..... West Indies
W Va..... West Virginia
Wash..... Washington
Wis..... Wisconsin
Wyo..... Wyoming
Y Bk..... yearbook
Zool..... zoology, etc.
Zs..... Zeitschrift
Ztg..... Zeitung

POLITECHNIKA GDAŃSKA ZAKŁAD GEOLOGII

SERIALS.

[The abbreviation used in the citation is printed in black-faced type.]

Ac Cienc Méd Habana, An Academia de ciencias médicas, físicas y naturales de la Habana [Cuba], Anales.

Ac Gioenia Sc Nat Catania, B. Accademia Gioenia de scienze naturali in Catania. Bollettino delle sedute.

Ac Imp Lyon, Cl Sc, Mém Académie impériale des sciences, belles-lettres, et arts de Lyon, Classe des sciences, Mémoires.

Ac Mex Cienc, An Academia mexicana de ciencias exactas, físicas, y naturales, Anuario. México, D. F.

Ac N Sc Phila, J; Pr; Min G Sec, Pr Academy of Natural Sciences of Philadelphia, Journal; Proceedings; Mineralogical and Geological Section, Proceedings.

Ac R Sc Bruxelles, B Académie royale des sciences . . . de Bruxelles, Bulletins.

Ac Sc Kansas City, Tr Academy of Science of Kansas City [Mo.], Transactions, vol. 1 (1898) [no more published]

Ac Sc Paris, C R Académie des sciences, Paris, Comptes rendus.

Ac Sc Sioux City, Pr Academy of Science and Letters of Sioux City, Iowa, Proceedings.

Ac Sc St. L, Tr Academy of Science of St. Louis, Transactions.

Ala G S Alabama, Geological Survey of. Montgomery and University.

Ala Ind Sc Soc, Pr Alabama Industrial and Scientific Society, Proceedings. University.

Albany Inst, Pr; Tr Albany [N. Y.] Institute, Proceedings; Transactions.

Allgem Berg- u Hüttenm Ztg. Allgemeine berg- und hüttenmännische Zeitung. Quedlinburg

Alpina Americana; published by the American Alpine Club, Philadelphia.

Alpine J Alpine Journal. London.

Am Ac Arts, Pr; Mem American Academy of Arts and Sciences, Proceedings; Memoirs. Boston.

Am As, Pr; Mem American Association for the Advancement of Science, Proceedings; Memoirs.

Am As Museums, Pr American Association of Museums, Proceedings.

Am As Petroleum G, B American Association of Petroleum Geologists, Bulletin.

Am Bur Geog, B American Bureau of Geography, Bulletin. Winona, Wis.

Am Chem Soc, J American Chemical Society, Journal. New York.

Am G American Geologist. Minneapolis.

Am G As, B American Geological Association, Bulletin. Athens, Tenn.

Am Geog Soc, B; J American Geographical Society of New York, Bulletin; Journal.

Am Geog Stat Soc, J American Geographical and Statistical Society, Journal. New York.

Am I M Eng, Tr; B American Institute of Mining Engineers, Transactions; Bulletin. New York.

Am J Agr American Journal of Agriculture and Science. Albany, N. Y.

Am J Conch American Journal of Conchology. Philadelphia.

Am J Sc American Journal of Science. New Haven, Conn.

Am M Cong American Mining Congress. See also International Mining Congress.

Am Meteorological J American Meteorological Journal Ann Arbor, Mich.

Am Micro Soc, Pr American Microscopical Society, Proceedings.

Am Miner J American Mineralogical Journal (Bruce), vol. 1, 1814 [no more published]. New York.

Am Mineralogist American Mineralogist. Philadelphia and Lancaster, Pa.

Am Mo Mag American Monthly Magazine. New York.

Am Mus J American Museum Journal (American Museum of Natural History).

Am Mus N H, B; Mem American Museum of Natural History, Bulletin; Memoirs. New York.

Am Nat American Naturalist. Salem, Mass., and elsewhere.

Am Ph Soc, Tr; Pr American Philosophical Society, Transactions; Proceedings. Philadelphia.

Am Q J Agr American Quarterly Journal of Agriculture and Science (later American Journal of Agriculture and Science). Albany, New York.

Am Q Micro J American Quarterly Microscopical Journal. New York.

Am Scenic and Historic Preservation Soc, An Rp American Scenic and Historic Preservation Society, Annual Report. Albany, N. Y.

Am Soc Civil Eng, Tr American Society of Civil Engineers, Transactions. New York.

An Bot Annals of Botany. London.

An G Paléont Annales de géologie et de paléontologie. Palermo, Italy.

An Géog Annales de géographie. Paris.

An Iowa Annals of Iowa. Iowa City.

An M Belgique Annales des mines de Belgique. Bruxelles.

An Mag N H Annals and Magazine of Natural History. London.

An Mex Cienc Anales mexicanos de ciencias . . . México, D. F.

An Mines Annales des mines. Paris.

An Paléont Annales de paléontologie. Paris.

An Physik Annalen der Physik und Chemie (J. C. Poggendorff). Leipzig.

An Sc, Cleveland Annals of Science, Cleveland, Ohio.

An Sc Géol Annales des sciences géologiques. Paris.

An Sc Nat, Zool Annales des sciences naturelles, Zoologie. Paris.

An Trav Pub Belgique Annales des travaux publics de Belgique. Bruxelles.

Anat Anz Anatomischer Ánzeiger. Jena.

Appalachia. Boston.

Applied Sc Applied Science. Toronto, Ont.

Arch Anat, Phys, wiss Med Archiv für Anatomie, Physiologie, und wissenschaftliche Medicin. Berlin.

Arch Bergbau Archiv für Bergbau und Hüttenwesen (Karsten). Berlin.

Arch Miner Archiv für Mineralogie, Geognosie, Bergbau und Hüttenkunde (Karsten; Dechen). Berlin.

Arch Naturg Archiv für Naturgeschichte (Wiegmann). Berlin.

Arch Sc Phys Nat Archives des sciences physiques et naturelles (Bibliothèque universelle de Genève). Geneva.

Archives of Science Orleans Co [Vt] Soc N Sc, Tr Archives of Science and Orleans County [Vt.] Society of Natural Sciences, Transactions. Newport, Vt.

Ariz St Bur Mines, B Arizona State Bureau of Mines, Bulletin. Tucson.

Ark G S Arkansas, Geological Survey of. Little Rock.

As Am G, Rp Association of American Geologists and Naturalists, Reports.

As Am Geog, An Association of American Geographers, Annals.

As Eng Soc, J Association of Engineering Societies, Journal. Philadelphia.

As Franç, C R Association française pour l'avancement des sciences, Compte Rendu. Paris.

Astron Soc Pacific, Pub Astronomical Society of the Pacific, Publications. San Francisco.

Augustana Libr Pub Augustana Library Publications. Rock Island, Ill.

Australasian As, Rp Australasian Association for the Advancement of Science, Reports. Sydney.

B Am Pal Bulletins of American Paleontology. Ithaca, N. Y.

B C Bur Mines, An Rp; B; B C Minister Mines, An Rp British Columbia Bureau of Mines, Annual Report; Bulletin; British Columbia Minister of Mines, Annual Report.

B Sc Nat Bulletin des sciences naturelles et de géologie (Férussac). Paris.

Baltimore Med Phil Lyc Baltimore [Md.] Medical and Philosophical Lycoeum.

Beitr Geoph Beiträge zur Geophysik. Leipzig.

Berg- u Hüttenm Ztg Berg- und hüttenmännische Zeitung. Leipzig.

Berkshire Hist Sc Soc, Four papers of Berkshire Historical and Scientific Society. Pittsfield, Mass.

Bernice Pauahi Bishop Mus, Oc P Bernice Pauahi Bishop Museum, Occasional Papers. Honolulu, H. I.

Biol B Biological Bulletin. Boston.

Biol Centralbl Biologisches Centralblatt. Erlangen.

Biol Soc Wash, Pr Biological Society of Washington, D. C., Proceedings.

Birmingham Ph Soc, Pr Birmingham [England] Philosophical Society, Proceedings.

Bol Agr Boletín de agricultura, minería é industrias. México, D. F.

Bol Minero Boletín minero. Órgano del Departamento de minas de la Dirección de minas y petróleo. México, Secretaría de fomento, colonización é industria, México, D. F.

Bol Petróleo Boletín del petróleo. México, D .F.

Boston J N H Boston Journal of Natural History.

Boston J Ph Boston Journal of Philosophy and the Arts.

Boston Soc N H, Pr; Oc P; Mem; Anniv Mem Boston Society of Natural History, Proceedings; Occasional Papers; Memoirs; Anniversary Memoirs.

Bot Gaz Botanical Gazette. Chicago.

Brit As, Rp British Association for the Advancement of Science, Report. London.

Brookville Soc N H, B Brookville [Ind.] Society of Natural History, Bulletin.

Buffalo Soc N Sc, B Buffalo [N. Y.] Society of Natural Sciences, Bulletin.

Bur Am Ethnology, B Bureau of American Ethnology, Bulletin. Washington, D. C.

Cal Ac Sc; Pr; Oc P; Mem California Academy of Sciences; Proceedings; Occasional Papers; Memoirs. San Francisco.

Cal J Tech California Journal of Technology. Berkeley, Cal.

Cal Phys Geog Club, B California Physical Geography Club, Bulletin. Berkeley, Cal.

Cal St M Bur, An Rp; B California State Mining Bureau, Annual Report; Bulletin. San Francisco.

[Cal] Univ Chronicle [California, University of] University Chronicle. Berkeley, Cal.

Cal, Univ, Dp G, B California, University of, Publications, Department of Geology, Bulletin. Berkeley, Cal.

Cal, Univ, Pub Geog California, University of, Publications in Geography.

Cal, Univ, Seism Sta, B California, University of, Publications, Seismographic Stations, Bulletin.

Cambridge Ph Soc, Pr Cambridge [England] Philosophical Society, Proceedings.

Can Alpine J Canadian Alpine Journal. Banff, Alta.

Can, Dp Interior, Rp Chief Astronomer Canada, Department of the Interior, Report of the Chief Astronomer, Ottawa.

Can Dp Interior, Sup Mines, Rp Canada, Department of the Interior, Superintendent of Mines, Report.

Can Entomologist Canadian Entomologist. London, Ont.

Can G S; An Rp; Sum Rp; Mem; Mus B; Victoria Mem Mus, B Canada, Geological Survey; Annual Report; Summary Report; Memoirs; Museum Bulletin; Victoria Memorial Museum, Bulletin.

Can Inst, Pr Canadian Institute Proceedings. Toronto.

Can J Canadian Journal. Toronto.

Can M Inst, B; Q B; J Canadian Mining Institute, Monthly Bulletin; Quarterly Bulletin; Journal. Montreal.

Can M J Canadian Mining Journal. Toronto and Montreal.

Can M Rv Canadian Mining Review. Ottawa.

Can, Mines Br, Sum Rp Canada, Department of Mines, Mines Branch, Summary Report. Ottawa, Ont.

Can Nat Canadian Naturalist and Geologist and Proceedings of the Natural History Society of Montreal.

Can Peat Soc, B Canadian Peat Society, Bulletin. Ottawa.

Can Rec N H Canadian Record of Natural History and Geology. Montreal.

Can Rec Sc Canadian Record of Science. Montreal.

Can Sc Mo Canadian Science Monthly. Kentville, N. S.

Canal Record. Ancon, Canal Zone, Panama.

Carnegie Inst Wash, Y Bk; Pub Carnegie Institution of Washington [D. C.], Year Book; Publications.

Carnegie Mus, An; Mem Carnegie Museum, Annals; Memoirs. Pittsburgh, Pa.

Cassier's Mag Cassier's Magazine. New York.

Central Ohio Sc As, Pr Central Ohio Scientific Association of Urbana, Ohio; Proceedings.

Centralbl Miner Centralblatt für Mineralogie, Geologie, und Paläontologie. Stuttgart.

Century Mag Century Illustrated Monthly Magazine. New York.

Ch News Chemical News, London.

Chicago Ac Sc; B; Sp Pub; Pr; G N H S, B; N H S, B Chicago Academy of Sciences; Bulletin; Special Publication; Proceedings. Geological and Natural History Survey, Bulletin; later Natural History Survey, Bulletin.

Chicago, Univ. Dec Pub; Walker Mus, Contr Chicago, University of, Decennial Publications; Walker Museum, Contributions.

Cin Q J Sc Cincinnati Quarterly Journal of Science, edited by S. A. Miller.

Cin Soc N H, J Cincinnati Society of Natural History, Journal.

Cleveland Ac, Pr Cleveland Academy of Natural Science, Proceedings.

Coal Age. New York.

Colliery Eng Colliery Engineer. Scranton, Pa.

Colo Bur Mines, Rp Colorado Bureau of Mines, Report.

Colo Coll Pub, sc s; Colo Coll Studies. Colorado College Publications, science series; Colorado College Studies. Colorado Springs.

Colo G S, B; Rp Colorado Geological Survey, Bulletin; Report. Denver.

Colo Sch Mines, An Rp; Bien Rp; B; Mag; Q Colorado School of Mines, Annual Report; Biennial Report; Bulletin; Magazine; Quarterly. Golden.

Colo Sc Soc, Pr Colorado Scientific Society, Proceedings. Denver.

Colo St Bur Mines, Rp Colorado State Bureau of Mines, Report. Denver.

Colo, Univ, Studies Colorado, University of, Studies. Boulder.

Cong Arts and Sc (St. Louis, 1904) Congress of Arts and Science (St. Louis, 1904).

Conn Ac, Tr; Mem Connecticut Academy of Arts and Sciences, Transactions; Memoirs. New Haven.

Conn G S, B Connecticut Geological Survey, Bulletin. Hartford.

Contr Sc Contributions to Science. Charles City, Iowa.

Copenhagen, Univ, Miner G Mus, Contr Miner Copenhagen, University, Mineralogical and Geological Museum, Contributions to Mineralogy.

Cosmos. Paris.

Costa Rica, B Fomento Costa Rica, Boletín de fomento. San José.

Costa Rica, Centro de Estudios Sismológicos, An Costa Rica, Centro de estudios sismológicos, Anales. San José.

Cuba, Dir Montes, B Minas Cuba, Dirección de montes y minas, Boletín de minas. Habana.

Dansk G Forening, Medd Dansk Geologisk Forening, Meddelelser. Köbenhavn.

Davenport Ac Sc, Pr Davenport [Iowa] Academy of Natural Sciences, Proceedings. Later Davenport Academy of Sciences.

Delaware Co Inst Sc, Pr Delaware County Institute of Science, Proceedings. Media, Pa.

Denison Univ, Sc Lab, B Denison University, Scientific Laboratories, Bulletin. Granville, Ohio.

Deut G Ges, Zs; Monatsb Deutsche geologische Gesellschaft, Zeitschrift; Monatsberichte. Berlin.

Deut Geog Blätter Deutsche geographische Blätter. Herausgegeben von der Geographischen Gesellschaft in Bremen.

Deut Oesterr Alpen-Ver, Zs Deutscher und oesterreichischer Alpen-Verein, Zeitschrift. München [etc.].

Deut Rundschau Deutsche Rundschau. Berlin.

Drury Coll, Bradley G Field Sta, B Drury College, Bradley Geological Field Station, Bulletin. Springfield, Mo.

Dublin Q J Sc Dublin Quarterly Journal of Science.

Durham, Univ, Ph Soc, Pr Durham, University of, Philosophical Society. Proceedings.

E. M. Mus G Coll N J, Contr E. M. Museum of Geology and Archaeology of the College of New Jersey, Contributions. Princeton, N. J.

Ec G Economic Geology. Lancaster, Pa.

Edinb G Soc, Tr Edinburgh Geological Society, Transactions.

Edinb N Ph J; Edinb Ph J Edinburgh New Philosophical Journal. Preceded by Edinburgh Philosophical Journal.

Elisha Mitchell Sc Soc, J Elisha Mitchell Scientific Society, Journal. Chapel Hill, N. C.

Elliott Soc N H Charleston, Pr Elliott Society of Natural History of Charleston [S. C.], Proceedings.

Eng As South, Tr Engineering Association of the South, Transactions. Nashville, Tenn.

Eng Club Phila, Pr. Engineers' Club of Philadelphia, Proceedings.

Eng M J Engineering and Mining Journal. New York.

Eng Mag Engineering Magazine. New York.

Eng Soc W Pa, Pr Engineers' Society of Western Pennsylvania, Proceedings. Pittsburgh.

Eng Soc York, Pr Engineering Society of York [Pa.], Proceedings

Entom News Entomological News. Philadelphia.

España, Com Mapa G, B España, Comisión del mapa geológico, Boletín. Madrid.

Essex Co N H Soc, J Essex County Natural History Society, Journal. Salem, Mass.

Essex Inst, B; Pr Essex Institute, Bulletin; Proceedings. Salem, Mass.

Fed Can M Inst, J Federated Canadian Mining Institute (later, Canadian Mining Institute), Journal.

Fed Inst M Eng, Tr Federated Institution of Mining Engineers, Transactions. Newcastle-upon-Tyne.

Field (Col) Mus, Pub, g s; zool s Field Columbian Museum (later, Field Museum), Publication, geological series; zoological series. Chicago.

Fla G S, An Rp Florida Geological Survey, Annual Report. Tallahassee.

Forum, The. New York.

[France], Comm Sc Mex, Arch [France], Commission scientifique du Mexique, Archives. (Archives de la Commission scientifique du Mexique, publiées sous les auspices du Ministère de l'instruction publique), 3 vols., Paris, 1865–67.

Frankfurter Ver Geog, Jber Frankfurter Verein für Geographie und Statistik, Jahresbericht. Frankfort-on-the-Main.

Franklin Inst, J Franklin Institute, Journal. Philadelphia, Pa.

Freunde Naturw, Ber (Haidinger) Freunde der Naturwissenschaften in Wien, Berichte über die Mittheilungen (W. Haidinger).

G As London, Pr Geologists' Association, London, Proceedings.

G Fören Stockholm, Förh Geologiska Föreningens i Stockholm, Förhandlingar.

G M Soc Am Univ, Y Bk Geological and Mining Society of American Universities, Year Book and Directory. Stanford University, Cal.

G Mag Geological Magazine. London.

G Pa Geology of Pennsylvania, by H. D. Rogers, 2 vols, maps. Philadelphia, 1858.

G Pal Abh Geologische und paleontologische Abhandlungen. Jena.

G Reichs-Mus Leiden, Samm Geologische Reichs-Museum in Leiden, Sammlungen.

G Rundschau Geologische Rundschau. Leipzig.

G Sc B Geological and Scientific Bulletin. Published by the Texas State Geological and Scientific Association. Vol. 1, 1888–89. Houston, Texas.

G Soc Am, B Geological Society of America, Bulletin. Rochester, N. Y., and elsewhere.

G Soc Dublin, J Geological Society of Dublin, Journal.

G Soc Glas, Tr Geological Society of Glasgow, Transactions.

G Soc London, Tr; Pr; Q J Geological Society of London, Transactions; Proceedings; Quarterly Journal.

G Soc Pa, Tr Geological Society of Pennsylvania, Transactions, vol. 1 (1835) [no more published]. Philadelphia.

G Soc Tokyo, J Geological Society of Tokyo [Japan], Journal.

Ga G S, B Georgia, Geological Survey, Bulletin. Atlanta.

Gen M As Que, J. General Mining Association of the Province of Quebec, Journal. Ottawa, Ont.

Geog Ges Hamburg, Mitt Geographische Gesellschaft in Hamburg, Mittheilungen.

Geog Ges München, Jber Geographische Gesellschaft in München, Jahresbericht.

Geog J Geographical Journal. London.

Geog Soc Chicago, B Geographic Society of Chicago, Bulletin.

Geog Soc Phila, B Geographical Society of Philadelphia, Bulletin.

Geologist. 2 vols., 1842, 1843, edited by Charles Maxon. London.

Ges Erdk Berlin, Verh; Zs Gesellschaft für Erdkunde zu Berlin, Verhandlungen; Zeitschrift.

Ges Naturf Freunde Berlin, Szb Gesellschaft naturforschender Freunde zu Berlin, Sitzungsberichte.

Ges Naturw Marburg, Schrift Gesellschaft zur Beförderung der gesammten Naturwissenschaften zu Marburg, Schriften.

Hamilton As, J Pr; Hamilton Sc As, J Pr Hamilton [Ont.] Association (later Hamilton Scientific Association), Journal and Proceedings.

Harper's Mag Harper's New Monthly Magazine New York.

Harvard Coll, Mus C Z, B; An Rp; Mem Harvard College, Museum of Comparative Zoology, Bulletin; Annual Report; Memoirs. Cambridge, Mass.

Harvard Univ B Harvard University Bulletin. Cambridge, Mass.

Hist Sc Soc Manit, Tr Historical and Scientific Society of Manitoba, Transactions. Winnipeg.

Hist Soc Mont, Contr Historical Society of Montana, Contributions. Helena.

Ill Ac Sc, Tr Illinois Academy of Science, Transactions.

Ill Coal M Investigations, B Illinois Coal Mining Investigations, Cooperative Agreement, Bulletin. Urbana, Ill.

Ill G S, B Illinois State Geological Survey, Bulletin. Urbana.

Ill G S, Ec G Illinois, Geological Survey of, Economical Geology (reprinted from vols. 1–6). Springfield.

Ill N H Soc, Tr Illinois Natural History Society, Transactions, vol. 1 (1861), second edition [no more published]. Springfield, Ill.

Ill Soc Eng Illinois Soc of Engineers and Surveyors, Report of annual meeting. Chicago.

Ill St Ac Sc, Tr Illinois State Academy of Science (later Illinois Academy of Science), Transactions.

Ill St Lab N H, B Illinois State laboratory of Natural History, Bulletin. Urbana, Ill.

Ill St Mus N H, B Illinois State Museum of Natural History, Bulletin, nos. 1–12. Springfield.

Ill, Univ, B; Univ Studies. Illinois, University of, Bulletin; University Studies. Urbana.

Imp Earthquake Investigation Com, B Imperial Earthquake Investigation Committee, Bulletin. Tokyo, Japan.

Ind Ac Sc, Pr Indiana Academy of Science, Proceedings. Indianapolis.

Ind G S, An Rp; Ind, Dp Stat G, An Rp; Ind, Dp G N H, An Rp; Ind, Dp G N Res, An Rp Indiana Geological Survey, 1st—8–9–10th Annual Reports, 1869–1879; Indiana, Department of Statistics and Geology, 1st and 2d Annual Reports; Indiana, Department of Geology and Natural History, 11th–16th Annual Reports; Indiana, Department of Geology and Natural Resources, 17th—, Annual Reports. Indianapolis.

Inst Físico-geog Nac Costa Rica, An Instituto físico-geográfico nacional de Costa Rica, Anales. San José.

Inst M Eng, Tr Institution of Mining Engineers, Transactions. Newcastle-upon-Tyne.

Inst M Met, Tr Institution of Mining and Metallurgy, Transactions. London.

Inst Mex Minas Met, Inf Instituto mexicano de minas y metalurgia, Informes y memorias. México, D. F.

Inst Petroleum Tech, J Institution of Petroleum Technologists, Journal. London.

Int Cong Zool, Pr International Congress of Zoology, Proceedings.

Int G Cong, Guide Exc; C R; Rp; Guide Book International Geological Congress, Guide des excursions; Comptes rendus; Report; Guide Book.

Int Geog Cong, Rp; Verh International Geographical Congress, Report; Verhandlungen.

Int M Cong International Mining Congress; later, American Mining Congress.

Int Q International Quarterly. New York.

Int Rv International Review. New York.

Int Zool Cong International Zoological Congress.

Iowa Ac Sc, Pr Iowa Academy of Sciences, Proceedings. Des Moines.

Iowa G S Iowa Geological Survey. Des Moines.

Iowa Hist Rec Iowa Historical Record. Iowa City.

Iowa Institutions, B Iowa State Institutions, Bulletin. Des Moines.

Iowa Nat Iowa Naturalist. Iowa City.

Iowa, Univ, Lab N H, B Iowa, State University, Laboratories of Natural History, Bulletin. Iowa City, Iowa.

Iron Steel Inst, J Iron and Steel Institute, Journal. London.

Ist Bologna, R Ac Sc, Cl Sc Fis, Mem Istituto di Bologna, Reale Accademia delle scienze, Classe di scienze fisiche, Memorie.

Italia, R Comitato G, B Italia, Real Comitato geologico, Bollettino. Rome.

J Anat Phys Journal of Anatomy and Physiology. London.

J Bot Journal of Botany. London.

J Chem Phys Journal für Chemie und Physik (Schweigger). Halle

J G Journal of Geology. Chicago, Ill.

J Geog Journal of Geography. Lancaster, Pa. and elsewhere.

J Indus Eng Chem Journal of Industrial and Engineering Chemistry. Easton, Pa.

J Mines Journal des mines. Paris.

J Morph Journal of Morphology. Boston.

J Phys Journal de physique, de chimie, d'histoire naturelle et des arts. Paris.

J Phys Chem Journal of Physical Chemistry. Ithaca, N. Y.

J Sch Geog Journal of School Geography. New York.

J Zool Journal de Zoologie. Paris.

Jb Miner Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefaktenkunde (Leonhard und Bronn). Heidelberg.

Johns Hopkins Univ Cir Johns Hopkins University Circular. Baltimore, Md.

K Ak Wiss, Mat-nat Cl, Szb Kaiserliche Akademie der Wissenschaften, Mathematische - naturwissenschaftliche Classe, Sitzungsberichte. Wien.

K-Bayer Ak Wiss München, Mat-phys Kl, Szb; Abh Königlich-bayerische Akademie der Wissenschaften zu München, Mathematisch-physikalische Klasse, Sitzungsberichte; Abhandlungen.

K-Böhm Ges Wiss, Mat-nat Cl, Szb Königlich-böhmische Gesellschaft der Wissenschaften in Prag, Mathematisch-naturwissenschaftliche Classe, Sitzungsberichte.

K Danske Vid Selsk, Skrift Kongelige danske Videnskabernes Selskabs, Skrifter. Copenhagen.

K Ges Wiss Göttingen, Abh Königliche Gesellschaft der Wissenschaften zu Göttingen, Abhandlungen.

K-k G Reichsanstalt, Verh; Jb Kaiserlich-königliche geologische Reichsanstalt, Verhandlungen; Jahrbuch, Wien.

K-k Geog Ges Wien, Mitt Kaiserlich-königliche geographische Gesellschaft in Wien, Mittheilungen.

K-k Naturh Hofmus, An Kaiserlich-königliche naturhistorische Hofmuseum, Annalen. Wien.

K-k Zool-bot Ges Wien, Verh Kaiserlich - königliche zoologisch-botanische Gesellschaft in Wien, Verhandlungen.

K-Preuss Ak Wiss Berlin, Mber; Szb; Abh Königlich - preussische Akademie der Wissenschaften zu Berlin, Monatsbericht; Sitzungsberichte; Abhandlungen.

K-Sächs Ges Wiss Leipzig, Mat-phys Cl, Ber Königlich-sächsische Gesellschaft der Wissenschaften zu Leipzig, Mathematisch - physische Classe; Berichte über die Verhandlungen.

K Svenska Vet-Ak Hdl; Öfv Kongliga svenska Vetenskaps-Akademiens Handlingar; Öfversigt til Handlingar. Stockholm.

Kans Ac Sc, Tr Kansas Academy of Science, Transactions. Topeka.

Kans St Bd Agr, Tr; An Rp; Bien Rp Kansas State Board of Agriculture, Transactions; Annual Report; Biennial Report. Topeka.

Kans, Univ G S Kansas, The University Geological Survey. Topeka.

Kans Univ Q Kansas University Quarterly. Lawrence.

Kans Univ, Sc B Kansas University, Bulletin. Science Bulletin. Lawrence.

Kansas City Rv Sc Kansas City [Mo.] Review of Science and Industry. See also Western Review of Science and Industry.

Kansas City Scientist. Kansas City, Mo.

Ky G S; Rp Prog; B Kentucky Geological Survey; Report of Progress; Bulletin. Frankfort.

L Sup M Inst, Pr Lake Superior Mining Institute, Proceedings.

La Géog La Géographie. Paris.

La Naturaleza. México, D. F.

La St Exp Sta, G Agr La Louisiana State Experiment Stations, Geology and Agriculture of Louisiana. Baton Rouge.

La St Univ, An Rp Sup Louisiana State University, Annual Report of Superintendent. New Orleans.

Lackawanna Inst, Pr Lackawanna Institute of History and Science, Proceedings and Collections. Scranton, Pa.

Leeds G As, Tr Leeds Geological Association, Transactions.

Leland Stanford Jr Univ, Pub Leland Stanford Junior University, Publications.

Linn Soc, J, Zool Linnean Society, Journal, Zoology. London.

Lit Hist Soc Quebec, Tr Literary and Historical Society of Quebec, Transactions.

Lit Ph Soc N Y, Tr Literary and Philosophical Society of New York, Transactions.

Liverpool G As, Tr [J] Liverpool Geological Association, Transactions [vol. 9 called Journal].

Liverpool G Soc, Pr Liverpool Geological Society, Proceedings.

Liverpool Geog Soc, Tr An Rp Liverpool Geographical Society, Transactions and Annual Report of the Council.

Lyc N H N Y, An; Pr Lyceum of Natural History of New York, Annals; Proceedings. Later New York Academy of Sciences.

M J Mining Journal. London.

M Mag Mining Magazine. London.

M Mag Mining Magazine; later Mining and Statistic Magazine. New York.

M Met Soc Am, B Mining and Metallurgical Society of America, Bulletin. New York.

M Metal Mining and Metallurgy. New York.

M Reporter Mining Reporter. Denver.

M Sc Press Mining and Scientific Press. San Francisco, Cal.

M Science. Mining Science. Denver.

M Soc N S, J Mining Society of Nova Scotia, Journal. Halifax.

M Stat Mag See Mining Magazine.

M World Mining World. Later, Mining and Engineering World. Chicago.

Maclurean Lyc, Contr Maclurean Lyceum, Contributions. Philadelphia.

Mag N H Magazine of Natural History (Loudon). London.

Malacol Soc L, Pr Malacological Society of London, Proceedings. London.

Manchester G (M) Soc, Tr Manchester Geological (later, and Mining) Society, Transactions.

Manchester Lit Ph Soc, Mem Manchester Literary and Philosophical Society, Memoirs and Proceedings.

Mazama. Portland, Oreg.

McClure's Mag McClure's Magazine. New York.

McGill Univ, Peter Redpath Mus McGill University, Montreal, Peter Redpath Museum.

Md Ac Sc, Tr Maryland Academy of Sciences, Transactions. Baltimore.

Md G S, Sp Pub Maryland Geological Survey, Special Publication.

Me Bd Agr, An Rp Maine Board of Agriculture, Annual Report. Augusta.

Me St Water Storage Comm, An Rp Maine State Water Storage Commission, Annual Report. Augusta.

Med Grönland Meddelelser om Grönland. Copenhagen.

Med Phys J Medical and Physical Journal. London.

Med Soc Pa, Tr Medical Society of the State of Pennsylvania, Transactions. Philadelphia.

Meriden Sc As, Tr Meriden [Conn.] Scientific Association, Proceedings and Transactions.

Méx, Com G, B; I G, B; Par México, Comisión geológica, Boletín; Instituto geológico, Boletín; Parergones.

Mex M J Mexican Mining Journal. México, D. F.

Méx, Min Fomento, An Mexico, Ministerio de fomento, Anales.

[Méx], Sec Fomento, Bol [México], Secretaría de fomento, Boletín.

Mich Ac Sc, Rp; An Rp Michigan Academy of Science, Report; Annual Report. Lansing.

Mich G S, Rp Michigan Geological Survey; Michigan State Board of Geological Survey, Report. Lansing.

Mich Miner Michigan Miner. Saginaw.

Mich Univ, Mus Zool, Oc P Michigan, University, Museum of Zoology, Occasional Papers. Ann Arbor.

Middlebury Hist Soc, Papers and Pr Middlebury [Vt.] Historical Society, Papers and Proceedings.

Min B Mining Bulletin. Published bimonthly by the Department of Mining Engineering of the Pennsylvania State College.

Min Mex El Minero mexicano. México, D. F.

Miner Mag Mineralogical Magazine and Journal of the Mineralogical Society. London.

Miner Mitt (Tschermak) (K-k G Reichsanstalt, Jb) Mineralogische Mittheilungen (Tschermak). Also as Beilage to Kaiserlich-königliche geologische Reichsanstalt, Jahrbuch. Wien.

Mining. Journal of the Northwest Mining Association. Spokane, Wash.

Minn Ac N Sc, B Minnesota Academy of Natural Sciences, Bulletin. Minneapolis.

Minn G S Minnesota, Geological and Natural History Survey. Minneapolis.

Minn Sch Mines, Exp Sta B Minnesota School of Mines, Experiment Station, Bulletin. Minneapolis.

Minn, Univ, Q B Minnesota, University of, Quarterly Bulletin. Minneapolis.

Miss Agr Exp Sta, B Mississippi Agricultural Experiment Station, Bulletin. Agricultural College.

Miss G S, B Mississippi Geological Survey, Bulletin. Agricultural College.

Mo G S; Mo Bur G Mines Missouri, Geological Survey; Missouri Bureau of Geology and Mines. Jefferson City.

Mo Micro J Monthly Microscopical Journal. London.

Mo, Univ, B sc s; Mus B; Studies Missouri, University of, Bulletin, science series; Museum Bulletin; Studies. Columbia, Mo.

Mo, Univ, Sch Mines, B Missouri, University of, School of Mines and Metallurgy, Bulletin. Rolla.

Mont, Univ, B Montana, University of, Bulletin. Missoula.

Monthly Am J G Monthly American Journal of Geology and Natural Science [G. W. Featherstonhaugh]. Philadelphia.

Morph Jb Morphologisches Jahrbuch. Leipzig.

Mus d'Hist Nat, An; B Muséum national d'histoire naturelle, Annales; Bulletin. Paris.

Mus Nac Méx, An Museo nacional de México, Anales. México, D. F.

Mus R d'Hist Nat Belgique, B Musée royal d'histoire naturelle de Belgique, Bulletin. Bruxelles.

N Am Rev North American Review. New York.

N C G S, B North Carolina Geological Survey, Bulletin.

N Dak Agr Coll Exp Sta, Bien Rp North Dakota Agricultural College Experiment Station, Biennial Report. Fargo.

N Dak G S, Bien Rp North Dakota Geological Survey, Biennial Report. Bismarck.

N Engl Inst M Eng, Tr North of England Institute of Mining Engineers (later, North of England Institute of Mining and Mechanical Engineers), Transactions, Newcastle-upon-Tyne.

N H Rv Natural History Review. London.

N H Soc N B, B Natural History Society of New Brunswick, Bulletin. St John.

N J, Dp Conservation, An Rp New Jersey, Department of Conservation and Development, Annual Report. Trenton, N. J.

N J, G S, An Rp; Final Rp; Pal; G N J New Jersey, Geological Survey, Annual Report; Annual Report of the State geologist; Final Report of the State geologist; Paleontology; Geology of New Jersey (Cook), 1868. Trenton.

N Jb; Beil Bd Neues Jahrbuch für Mineralogie, Geologie, und Paläontologie; Beilage Band. Stuttgart.

N Mex, Univ, B g s New Mexico, University, Bulletin, geological series. Albuquerque.

N S, Dp Mines, Rp Nova Scotia, Department of Mines, Report. Halifax.

N S Inst N Sc, Pr Tr Nova Scotia Institute of Natural Science, Proceedings and Transactions. Halifax.

N S Lit Sc Soc, Tr Nova Scotia Literary and Scientific Society, Transactions. Halifax.

N Y Ac Sc, An; Tr; Mem New York Academy of Sciences, Annals; Transactions; Memoirs

N Y, Bd Agr, Mem New York, Board of Agriculture, Memoirs. Albany.

N Y Bot Garden, B New York Botanical Garden, Bulletin.

N Y Comm St Res Niagara, An Rp New York (State), Commissioners of the State Reservation at Niagara, Annual Report. Albany.

N Y G S New York Geological Survey. Albany.

N Y Med Phys J New York Medical and Physical Journal.

N Y Micro Soc, J New York Microscopical Society, Journal.

N Y Miner Club, B New York Mineralogical Club, Bulletin.

N Y St Agr Soc, Tr New York State Agricultural Society, Transactions. Albany.

N Y St Cab, An Rp New York State Cabinet of Natural History, Annual Report of the Regents of the University. Albany.

N Y St G, An Rp New York, State Geologist, Annual Report. Albany.

N Y St Mus, An Rp New York State Museum of Natural History, Annual report. Albany.

Nassauischer Ver Naturk, Jb Nassauischer Verein für Naturkunde, Jahrbücher. Wiesbaden.

Nat Ac Sc, Biog Mem; Mem; Pr National Academy of Sciences, Biographical Memoirs; Memoirs; Proceedings. Washington, D. C.

Nat Gas As Am, Pr Natural Gas Association of America, Proceedings.

Nat Geog Mag National Geographic Magazine. Washington, D. C.

Nat Geog Soc, Nat Geog Mon National Geographic Society. National Geographic Monographs, vol 1, 10 nos., 1895. Washington, D. C.

Nat Inst, B Pr; Pr, n s National Institution (later, Institute) for the Promotion of Science, Bulletin of the Proceedings; Proceedings, new series. Washington, D. C.

Nat Sc Natural Science. London.

Nat Sc As Staten Island, Pr Natural Science Association of Staten Island [N. Y.], Proceedings.

Nat Sc J Natural Science Journal, vol. 1, nos. 1 and 2 [no more published], 1897. New Bedford, Mass.

Naturaleza (La) Periódico científico de la Sociedad mexicana de historia natural. México, D. F.

Naturaliste Can Le Naturaliste canadien. Quebec.

Naturalist's Leisure Hour and Monthly Bulletin. A. E. Foote. Philadelphia.

Nature. London.

Naturf Ges Leipzig, Szb Naturforschende Gesellschaft zu Leipzig, Sitzungsberichte.

Naturh Ver Preus Rheinl, Verh Naturhistorischer Verein der preussischen Rheinlande und Westphalens, Verhandlungen. Bonn.

Naturh Ver Preus Rheinl, Verh Niederrhein Ges Bonn, Szb) Naturhistorischer Verein der preussischen Rheinlande ..., Verhandlungen (Niederrheinische Gesellschaft für Natur- und Heilkunde in Bonn, Sitzungsberichte).

Naturh-med Ver Heidelberg, Verh Naturhistorisch-medicinischer Verein zu Heidelberg, Verhandlungen.

Naturw Abh Naturwissenschaftliche Abhandlungen (Haidinger). Wien.

Naturw Ges Isis Dresden, Szb; Abh Naturwissenschaftliche Gesellschaft Isis in Dresden, Sitzungsberichte; Abhandlungen.

Naturw Ver Halle, Jber Naturwissenschaftlicher Verein [für Sachsen und Thüringen] in Halle, Jahresberichte.

Naturw Ver Neuvorpommern und Rügen in Greifswald, Mitt Naturwissenschaftlicher Verein für Neuvorpommern und Rügen in Greifswald, Mittheilungen.

Naturw Ver Steiermark, Mitt Naturwissenschaftlicher Verein für Steiermark, Mitteilungen. Graz.

Naturw Wochensch Naturwissenschaftliche Wochenschrift. Berlin.

Nautilus. Philadelphia.

Nebr Ac Sc, Pub; Pr Nebraska Academy of Sciences, Publications; Proceedings.

Nebr St Bd Agr, An Rp Nebraska State Board of Agriculture, Annual Report. Lincoln, Nebr.

Nebr St Hist Soc, Pr Nebraska State Historical Society, Proceedings and Collections. Lincoln.

Nebr Univ, Studies Nebraska University, University Studies. Lincoln.

Nev, Univ, Dp G M, B Nevada, University of, Department of Geology and Mining, Bulletin. Reno.

New Orleans Ac Sc, Papers New Orleans [La.] Academy of Sciences, Papers.

Newport N H Soc, Pr Newport [R. I.] Natural History Society, Proceedings.

Niederrhein Ges Bonn, Szb Niederrheinische Gesellschaft für Natur- und Heilkunde zu Bonn, Sitzungsberichte. Issued with Naturhistorische Verein der preussischen Rheinlande und Westphalens, Verhandlungen.

Oesterreichische Zs Berg- u Hüttenw Oesterreichische Zeitschrift für Berg- und Hüttenwesen. Wien.

Ohio G S, B Ohio Geological Survey, Bulletin. Columbus.

Ohio M J Ohio Mining Journal. Columbus.

Ohio Nat Ohio Naturalist, Ohio State University, Columbus.

Ohio St Ac Sc, An Rp; Pr; Sp P Ohio State Academy of Science, Annual Report; Proceedings; Special Papers. Columbus.

Ohio St Univ, B Ohio State University, Bulletin. Columbus.

Okla, Dp G N H, Bien Rp Oklahoma, Department of Geology and Natural History, Biennial Report. Guthrie.

Okla G S, B Oklahoma Geological Survey, Bulletin. Norman.

Okla, Univ, Research B Oklahoma, State University, Research Bulletin. Norman.

Oneida Hist Soc, Tr Oneida Historical Society at Utica, N. Y., Transactions.

Onondaga Ac Sc, Pr Onondaga Academy of Science, Proceedings. Syracuse, N. Y.

Onondaga Hist As Sc S Onondaga Historical Association. Science series. Syracuse, N. Y.

Ont Bur Mines, An Rp; B Ontario Bureau of Mines, Annual Report; Bulletin. Toronto.

Oreg Bur Mines; Min Res Oreg Oregon Bureau of Mines and Geology; Mineral Resources of Oregon. Corvallis.

Ottawa Field Nat Club, Tr Ottawa Field Naturalists' Club, Transactions.

Ottawa Lit Sc Soc, Tr Ottawa Literary and Scientific Society, Transactions.

Ottawa Nat Ottawa Naturalist. Continues the Transactions of the Ottawa Field Naturalists' Club.

Pa, Dp Agr, An Rp Pennsylvania, Department of Agriculture, Annual Report. Harrisburg.

Pa G S [2d], An Rp Pennsylvania, Geological Survey, Second, Annual Report. Harrisburg.

Pa St Coll; An Rp Pennsylvania State College; Annual Report.

Pa, Top G S; Rp Pennsylvania, Topographic and Geologic Survey, Report. Harrisburg.

Pa, Univ, Lab, Contr Pennsylvania, University of, Laboratory, Contributions from. Philadelphia.

Pahasapa Q Pahasapa Quarterly. Rapid City, S. Dak.

Pal B Paleontological Bulletins (Cope), Nos. 1–40, 1872–1885. Philadelphia.

Palaeont Abh (Dames u Kayser) Palaeontologische Abhandlungen (Dames und Kayser). Jena.

Palaeont Zs Palaeontologische Zeitschrift. Berlin.

Palaeontographica. Cassel.

Penn Monthly. Philadelphia, Pa.

Penn St M Q Penn State Mining Quarterly. Pennsylvania State College.

Petermanns Mitt; Erg Petermanns Mitteilungen; Ergänzungsheft. Gotha.

Pharmaceutical J Pharmaceutical Journal and Transactions. London.

Ph Mag Philosophical Magazine. Later London and Edinburgh Philosophical Magazine. Later London, Edinburgh, and Dublin Philosophical Magazine.

Ph Soc Glasgow, Pr Philosophical Society of Glasgow, Proceedings.

Ph Soc Wash, B Philosophical Society of Washington [D. C.], Bulletin.

Phila Med Phys J Philadelphia Medical and Physical Journal.

Polyt Rv Polytechnic Review. Philadelphia, Pa.

Pop Sc Mo Popular Science Monthly. New York.

Pop Sc Rv Popular Science Review. London.

Portland Soc N H, Pr Portland [Maine] Society of Natural History, Proceedings.

Pottsville Sc As, B Pottsville Scientific Association, Schuylkill County, Pa., Bulletin [only one number published, 1855]

Poughkeepsie Soc N Sc, Pr Poughkeepsie [N. Y.] Society of Natural Science, Proceedings.

Princeton Coll, B Princeton College [N. J.], Bulletin.

Princeton Coll, E. M. Mus G, Contr Princeton College, E. M. Museum of Geology and Archaeology, Contributions.

Psyche. Cambridge, Mass.

Q J Micro Sc Quarterly Journal of Microscopical Science. London.

Q J Sc Quarterly Journal of Science. London.

Q J Sc Quarterly Journal of Science, Literature, and the Arts. London.

Que, Dp Col..., Mines Br, Rp Quebec (Province), Department of Colonization, Mines and Fisheries, Mines Branch, Report on Mining operations. Quebec.

R Ac Cienc Habana, An Real Academia de ciencias médicas, físicas y naturales de la Habana [Cuba], Anales.

R Astron Soc Can, Pr Royal Astronomical Society of Canada, Selected Papers and Proceedings. Toronto.

R Bot Garden Edinb, Notes Royal Botanical Garden of Edinburgh, Notes.

R Comitato G Italia, B Reale Comitato geologico d'Italia, Bolletino. See Italia.

R Dublin Soc, J; Sc Pr Royal Dublin Society, Journal; Scientific Proceedings.

R Eng J Royal Engineers Journal. Chatham.

R G Soc Cornwall, Tr Royal Geological Society of Cornwall, Transactions. Penzance.

R G Soc Ireland, J Royal Geological Society of Ireland, Journal. Dublin.

R Geog Soc, Pr Royal Geographical Society, Proceedings. London.

R I Bur Industrial Statistics, An Rp; Nat Res S, B Rhode Island, Bureau of Industrial Statistics, Annual Report; Natural Resources Survey, Bulletin. Providence.

R Inst, Pr Royal Institution of Great Britain, Proceedings. London.

R Irish Ac, Pr Royal Irish Academy, Proceedings. Dublin.

R Micro Soc, J Royal Microscopical Society, Journal. London.

R Phys Soc Edinb, Pr Royal Physical Society of Edinburgh, Proceedings.

R Soc Can, Pr Tr Royal Society of Canada, Proceedings and Transactions. Montreal.

R Soc Edinb, Tr; Pr Royal Society of Edinburgh, Transactions; Proceedings.

R Soc London, Pr; Ph Tr Royal Society of London, Proceedings; Philosophical Transactions.

R Soc N S Wales, J Pr Royal Society of New South Wales, Journal and Proceedings. Sydney.

Records of the Past. Washington, D. C.

Republic. Washington, D. C.

Rv Gén Sciences Revue générale des sciences pures et appliquées. Paris.

Rv Scient Revue scientifique... Paris,

Rv Trim Can Revue trimestrielle canadienne. Montreal.

Rv Univ Mines Revue universelle des mines... Liége and Paris.

Revista Minera Revista minera, metalúrgica y de ingeniería. Madrid.

Rochester Ac Sc, Pr Rochester [N. Y.] Academy of Science, Proceedings.

Russ-k Min Ges St. Petersburg, Verh Russisch-kaiserliche mineralogische Gesellschaft zu St. Petersburg, Verhandlungen.

S Cal Ac Sc, B Southern California Academy of Sciences, Bulletin. Los Angeles.

S Dak G S, B South Dakota Geological Survey, Bulletin. Sioux Falls.

S Dak Sch Mines, B South Dakota School of Mines, Bulletin. Rapid City.

Salt Lake M Rv Salt Lake [Utah] Mining Review.

San Diego Soc N H, Tr San Diego [Cal.] Society of Natural History, Transactions.

San Francisco Micro Soc, Tr San Francisco Microscopical Society, Transactions.

Santa Barbara Soc N H, B Santa Barbara [Cal.] Society of Natural History, Bulletin.

Sc Advocate Science Advocate. Issued quarterly by the Natural Science Society of Atco, N. J.

Sc Am; Sc Am Sup Scientific American; Scientific American Supplement. New York.

Sc As Trinidad, Pr Scientific Association of Trinidad, Proceedings. Port of Spain.

Sc Conspectus Science Conspectus. Massachusetts Institute of Technology. Boston.

Sc Mo Scientific Monthly. New York.

Sc Mo, Toledo, O Scientific Monthly, Toledo, Ohio.

Sc Progress Science Progress. London.

Sc Soc San Antonio, B Scientific Society of San Antonio [Texas], Bulletin.

Sch Mines Q School of Mines Quarterly. Columbia University. New York.

Schles Ges, Jber Schlesische Gesellschaft für vaterländische Cultur, Jahres-Bericht. Breslau.

Schweiz Naturf Ges, Verh Schweizerische Naturforschende Gesellschaft, Verhandlungen.

Science. Cambridge, Mass, later New York.

Science (ed. John Michels). New York.

Science News. Salem, Mass.

Scottish Geog Mag Scottish Geographical Magazine. Edinburgh.

Scribner's Mag Scribner's Magazine. New York.

Sedalia N H Soc, B Sedalia [Mo.] Natural History Society, Bulletin.

Seism Soc Am, B Seismological Society of America, Bulletin. Stanford University, Cal.

Senckenbergische Nat Ges Frankfurt, Ber Senckenbergische naturforschende Gesellschaft in Frankfurt am Main, Bericht.

Sierra Club B Sierra Club Bulletin. San Francisco, Cal.

Smiths Inst, An Rp; Smiths Contr Knowl; Smiths Misc Col; Q Is Smithsonian Institution, Annual Report; Smithsonian Contributions to Knowledge; Smithsonian Miscellaneous Collections; Quarterly Issue. Washington, D. C.

Soc Arts, J Society of Arts, Journal. London.

Soc Belge G, B Société belge de géologie..., Bulletin. Bruxelles.

Soc Bot France, B Société botanique de France, Bulletin. Paris.

Soc Chem Ind, J Society of Chemical Industry, Journal. London.

Soc Cient Ant Alz, Mem Sociedad científica "Antonio Alzate," Memorias y revista. México, D. F.

Soc Cubana Ing, Rv Sociedad cubana de ingenieros, Revista. Habana.

Soc d'Études Sc d'Angers, B Société d'études scientifiques d'Angers, Bulletin.

Soc Española H N, An Sociedad española de historia natural, Anales. Madrid.

Soc Franç Minér, B Société française de minéralogie, Bulletin. Paris.

Soc Fribourgeoise Sc Nat, B; Mém Société fribourgeoise des sciences naturelles, Bulletin; Mémoires. Fribourg.

Soc G Belgique, An Société géologique de Belgique, Annales. Liège.

Soc G France, B; Mém Société géologique de France, Bulletin; Mémoires. Paris.

Soc G Italiana, B Società geologica italiana, Bollettino. Roma.

Soc G Mex, B Sociedad geológica mexicana, Boletín. México, D. F.

Soc G Nord, An; Mém Société géologique du Nord, Annales; Mémoires. Lille.

Soc G Normandie, B Société géologique de Normandie, Bulletin. Havre.

Soc Geog Mex, B Sociedad de geografía y estadística de la República mexicana, Boletín. México, D. F.

Soc Géog Paris, B Société de géographie, Paris, Bulletin.

Soc Géog Qué, B Société de géographie de Québec, Bulletin.

Soc Hongroise Géog, Abrégé B Société hongroise de géographie, Abrégé du bulletin. Budapest.

Soc Imp Nat Moscou, B Société impériale des naturalistes de Moscou, Bulletin.

Soc Ind Min, B; C R Men Société de l'industrie minérale, Bulletin; Comptes rendus mensuels des réunions. Saint-Etienne.

Soc Ing Civils France, Mém Société des ingénieurs civils de France, Mémoires. Paris.

Soc Italiana Sc Nat Milano, Atti Società italiana di scienze naturali... in Milano, Atti.

Soc Ligustica Sc Nat Geog, Atti Società ligustica di scienze naturali e geografiche, Atti. Genoa.

Soc Mex Geog Estadística, B Sociedad mexicana de geografía y estadística, Boletín. México, D. F.

Soc Malac Belgique, An Société malacologique de Belgique, Annales. Bruxelles.

Soc Minér France, B Société minéralogique de France, Bulletin. Paris.

Soc Promotion Agr Sc, Pr Society for the Promotion of Agricultural Science, Proceedings of the —— Annual Meeting.

Soc Roy Belge de Géog, B Société royale belge de géographie, Bulletin. Bruxelles.

Soc Sc Nat Neuchatel, B Société des sciences naturelles de Neuchatel, Bulletin.

Soc Zool France, B Société zoologique de France, Bulletin. Paris.

Southern J Med Phys Sc Southern Journal of the Medical and Physical Sciences. Nashville, Tenn.

Southwestern As Petroleum G, B Southwestern Association of Petroleum Geologists, Bulletin. Continued as American Association of Petroleum Geologists, Bulletin.

St. Louis Univ, B St. Louis [Mo.] University, Bulletin.

Staten Island As, Pr Staten Island [N. Y.] Association of Arts and Sciences, Proceedings.

Stone. Chicago.

Tech Q Technology Quarterly and Proceedings of the Society of Arts. Earlier, Technology Quarterly. Massachusetts Institute of Technology. Boston.

Tech Rv Technology Review. Massachusetts Institute of Technology. Boston.

Tech Soc Pacific Coast, Tr Technical Society of the Pacific Coast, Transactions. San Francisco.

Tenn G S; Res Tenn; B Tennessee State Geological Survey; Resources of Tennessee; Bulletin. Nashville.

Tenn St Bd Health, B; Rp Tennessee State Board of Health, Bulletin; Report. Nashville.

Terr Magn Terrestrial Magnetism and Atmospheric Electricity. Baltimore.

Tex Ac Sc, Tr Texas Academy of Science, Transactions. Austin, Tex.

Tex G S, Rp Prog Texas Geological Survey, Report of Progress. Austin.

Tex, Univ, B; Min S B Texas University of, Bulletin; Mineral Survey Bulletin. Austin.

Toronto, Univ, Studies, g s Toronto, University of, Studies, geological series.

Torrey Bot Club, B Torrey Botanical Club, Bulletin. New York.

Torreya. Lancaster, Pa.

Transylvania J Med Transylvania Journal of Medicine. Lexington, Ky.

Tschermak's Mitt Tschermak's mineralogische und petrographische Mittheilungen. Wien.

Tufts Coll Studies Tufts College Studies. Tufts, Mass.

U S, Bur Mines, B; Tech P United States, Bureau of Mines, Bulletin; Technical Paper, Washington, D. C.

U S, Bur Soils, B United States, Bureau of Soils, Bulletin.

U S, Coast S United States, Coast and Geodetic Survey.

[U S], —— Cong —— Sess, S Ex D; H Ex D [United States], —— Congress —— session, Senate Executive Document No. ——; House of Representatives Executive Document No. ——.

U S, Dp Agr, B United States, Department of Agriculture, Bulletin.

U S, Dp Interior, Off Secretary United States, Department of the Interior, Office of the Secretary.

U S G Expl 40th Par (King) United States Geological Exploration of the Fortieth Parallel (King).

U S G Geog S Terr (Hayden) United States Geological and Geographical Survey of the Territories (Hayden) [title varies].

U S G S, An Rp; P P; B; W-S P; Mon; Min Res; G Atlas, Top Atlas. United States Geological Survey, Annual Report; Professional Paper; Bulletin; Water-Supply Paper; Monograph; Mineral Resources; Geologic Atlas, —— folio (No. ——); Topographic Atlas.

U S Geog G S Rocky Mtn Reg (Powell) United States Geographical and Geological Survey of the Rocky Mountain Region (Powell).

U S Geog S W 100th Mer (Wheeler) United States Geographical Surveys West of the One Hundredth Meridian (Wheeler).

U S Land Off United States, General Land Office.

U S Nat Mus, An Rp; B; Pr United States National Museum, Annual Report; Bulletin; Proceedings.

U S, Off Pub Roads, B United States, Office of Public Roads, Bulletin.

U S, Pacific R R Expl United States [War Department], Pacific Railroad Explorations (U. S., 33d Congress, 1st session, House of Representatives Ex. Doc. No. 129, vol. 18, pts. 1–4). Reports of explorations and surveys to ascertain the most practicable and economical route for a railroad from the Mississippi River to the Pacific Ocean, made... in 1853–4... U. S., 33d Congress 2d session, Senate Ex. Doc. No. 78 and H. Ex. Doc. 91.

U S [War Dp], Chief Eng, An Rp United States [War Department], Chief of Engineers, Annual Report.

Upsala, Univ, G Inst, B Upsala, University, the Geological Institution, Bulletin.

Utah Ac Sc, Tr. Utah Academy of Sciences, Transactions. Salt Lake City.

Va G S, B Virginia Geological Survey, Bulletin. Richmond.

Va, Univ, Ph Soc, B sc s Virginia, University of, Philosophical Society, Bulletin, scientific series. Charlottesville.

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Ver Erdk Dresden, Mitt Verein für Erdkunde zu Dresden, Mitteilungen.

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Ver Vaterl Naturk Württemberg, Jahresh Verein für vaterländische Naturkunde in Württemberg, Jahreshefte. Stuttgart.

Victoria Inst, Tr Victoria Institute, or Philosophical Society of Great Britain, Journal of the Transactions. London.

Victoria Inst, Trinidad, Pr Victoria Institute, Trinidad, Proceedings.

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Vt St G, Rp Vermont, State Geologist, Report. Rutland.

W Soc Eng, J Western Society of Engineers, Journal. Chicago, Ill.

W Va G S West Virginia Geological Survey, Charleston and Wheeling.

W Va Univ, Rp Bd Reg West Virginia University, Report of the Board of Regents. Morgantown.

Wagner Free I Sc, Tr Wagner Free Institute of Science of Philadelphia, Transactions.

Walker Museum. See Chicago University.

Wash Ac Sc; J; Pr Washington [D. C.] Academy of Sciences, Journal: Proceedings.

Wash, St G, An Rp; Wash G S, B Washington, State Geologist, Annual Report; Washington Geological Survey, Bulletin. Tacoma.

Wash, Univ, Pub G Washington, University of, Publications in Geology. Seattle.

Washburn Coll Lab N H, B Washburn College Laboratory of Natural History, Bulletin. Topeka, Kans.

Wernerian N H Soc, Mem Wernerian Natural History Society, Memoirs. Edinburgh.

West Am Sc West American Scientist. San Diego, Cal.

Western Eng Western Engineering. San Francisco, Cal.

Western Reserve Hist Soc Tracts Western Reserve Historical Society, Tracts. Cleveland, Ohio.

Western Rv Sc Western Review of Science and Industry. With vol. 2, no. 7, Oct., 1878, name changed to Kansas City Review of Science and Industry. Kansas City, Mo.

Wis Ac Sc, Tr Wisconsin Academy of Science, Arts, and Letters, Transactions. Madison.

Wis Engineer Wisconsin Engineer. Madison.

Wis G S, G Wis; B Wisconsin Geological Survey, Geology of Wisconsin. Later Wisconsin Geological and Natural History Survey, Bulletin. Madison.

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Wis, Univ, B, Sc s; Eng s Wisconsin, University of, Bulletin, Science series; Engineering series. Madison.

Wyo, G Off, B; Wyo, St G Wyoming, Geologist's Office, Bulletin. Wyoming, State Geologist. Cheyenne and Laramie.

Wyo, Univ, Sch Mines, B Wyoming, University of, School of Mines, Bulletin. Laramie.

Wyoming Hist G Soc, Pr; Pub Wyoming Historical and Geological Society, Proceedings and Collections; Publications. Wilkesbarre, Pa.

Yale Bicen Pub Contr Miner Yale [University] Bicentennial Publications. Contributions to mineralogy and petrography..., edited by S. L. Penfield and L. V. Pirsson. New York, Charles Scribner's Sons, 1901.

Yale Sc Mo Yale [University] Scientific Monthly. New Haven, Conn.

Yorkshire G Polyt Soc, Pr Yorkshire Geological and Polythechnic Society, Proceedings. Leeds.

Zool Anzeiger Zoologischer Anzeiger. Leipzig.

Zool B Zoological Bulletin. Boston, Mass.

Zool Soc London, Pr Zoological Society of London, Proceedings.

Zs Allg Erdk Zeitschrift für allgemeine Erdkunde. Berlin.

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Zs Berg-, Hütten- u Salinen-Wesen Zeitschrift für das Berg-, Hütten- und Salinen-Wesen. Berlin.

Zs Ges Naturw Zeitschrift für die gesammten Naturwissenschaften, Berlin.

Zs Gletscherk Zeitschrift für Gletscherkunde. Berlin.

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Zs Miner (Leonhard) Zeitschrift für Mineralogie (Leonhard). Frankfurt am Main.

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45c Description of some microscopic shells from the decomposing marl slate of Cincinnati. Am J Sc 48 : 292–295 (1845)

45d Fossil vegetables and shells from Oregon (*abst*). As Am G, Pr 6 : 66 (1845)

46 Notice of the geological position of the cranium of the *Castoroides ohioensis*. Boston J N H 5 : 385–391 (1846)

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47a ...on certain fossils in the red sand-rock of Highgate [Vt.]. *In* Adams, C. B., Third annual report on the geology of the State of Vermont : 31 (1847)

48 Catalogue of specimens in the geological department of the geological survey [of New York]. N Y St Cab, An Rp 1 : 39 pp (1848)

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48c Remarks on the observations of S. S. Haldeman "on the supposed identity of *Atops trilineatus* with *Triarthrus beckii.*" Am J Sc (2) 5 : 322–327, il (1848)

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49 List of minerals, geological specimens, and fossils, added to the collection during 1847 and 1848. N Y St Cab, An Rp 2 : 65–70 (1849)

49a On the supposed impression in shale of the soft parts of *Orthoceras.* G Soc London, Q J 5 : 107–111, il (1849)

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50b On the Brachiopoda of the Silurian period; particularly the Leptaenidae. Am As, Pr 2 : 347–351 (1850)

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51f [Discussion of paper, On the Silurian rocks of the Lake Superior land district, by Prof. Jas. Hall.] Am As, Pr 5 : 64–66 (1851)

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54 (with **Lyell,** Charles) Rapport sur la partie géologique de l'exposition de New York. An Mines (5) 6 : 1–83 (1854)

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57 Descriptions of Paleozoic fossils... N Y St Cab, An Rp 10 : 39–180, il (1857)

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57c Direction of the currents of deposition and source of the materials of the older Paleozoic rocks (*abst*). Can Nat 2:284–286 (1857) Can J n s 3:88 (1858) Edinb N Ph J n s 6:348–349 (1857)

57d Observations upon the Carboniferous limestones of the Mississippi Valley (*abst*). Am J Sc (2) 23:187–203 (1857) Am As, Pr 10 pt 2:51–69 (1857) M Mag 9:529–542 (1857)

57e Remarks upon the genus *Archimedes* or *Fenestella* from the Carboniferous limestones of the Mississippi Valley. Am As, Pr 10 pt 2:176–180 (1857) Am J Sc (2) 23:203–204 (1857)

57f On some points in the geology of the upper Mississippi Valley (*abst*). Edinb N Ph J n s 5:362 (1857)

57g [Comments on Prof. Gibbes' paper on Niagara Falls.] Am As, Pr 10 pt 2: 76–78 (1857)

58 (and **Whitney,** J. D.) Report on the geological survey of the State of Iowa, embracing the results of investigations made during... 1855, 56 & 57. Vol 1 pt 1 Geology: xv, 472, 4, 4 pp, map; pt 2 Paleontology: 473–724, 3, 30 pp, il [Albany, N Y] 1858

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58c Note upon the genus *Graptolithus,* and description of some remarkable new forms from the shales of the Hudson River group... Can Nat 3:139–150, 161–177, il (1858) *Abst,* Am J Sc (2) 26:117–119 (1858)

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59b Observations on the genera *Capulus, Pileopsis, Acroculia,* and *Platyceras.* N Y St Cab, An Rp 12:15–19, il (1859)

59c Observations on the genera *Platyostoma* and *Strophostylus.* N Y St Cab, An Rp 12:20–21, il (1859)

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59e [Observations on genera of Brachiopoda.] N Y St Cab, An Rp 12:27–44, il (1859)

59f Notes upon the genus *Graptolithus.* N Y St Cab, An Rp 12:45–58, il (1859)

59g Trilobites of the shales of the Hudson River group. N Y St Cab, An Rp 12: 59–62, il (1859)

59h Catalogue of the species of fossils... of New York. N Y St Cab, An Rp 12: 63–96 (1859)

59i Supplementary note on the genus *Ambonychia.* N Y St Cab, An Rp 12: 110, il (1859)

59j Contributions to the paleontology of Iowa; being descriptions of new species of Crinoidea and other fossils. Iowa G S 1 pt 2 Sup:94 pp, il [Albany] 1859

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60f Observations upon a new genus of Crinoidea, *Cheirocrinus.* N Y St Cab, An Rp 13:121–124, il (1860)

60g New species of fossils from the Niagara group of Wisconsin. Report of Progress for 1859. 4 pp. Albany 1860 [not seen]

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61 ... fossils from the rocks of Hudson River group of Ohio and the Western States; with descriptions. N Y St Cab, An Rp 14:89–92 (1861)

61a Note on the genera *Bellerophon, Bucania, Carinaropsis,* and *Cyrtolites.* N Y St Cab, An Rp 14:93–98 (1861)

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61e Descriptions of new species of Crinoidea from the Carboniferous rocks of the Mississippi Valley. Boston J N H 7:261–328 (1861)

61f [On the Primordial fauna and Point Levis, Quebec, fossils.] Am J Sc (2) 31:220–226 (1861) Can Nat 6:113–120 (1861) Can J n s 6:284–292 (1861) Report on the geology of Vermont (Hitchcock) 1:382–386 (1861)

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62a [On the position of the goniatite beds of Rockford, Ind.] N Y St Cab, An Rp 15:81 (1862)

62b Preliminary notice of the trilobites and other Crustacea of the Upper Helderberg, Hamilton, and Chemung groups. N Y St Cab, An Rp 15:82–113 (1862) [Advance pub 1861]

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62g Note on the genus *Cypricardites.* N Y St Cab, An Rp 15:192–193, il (1862)

62h [Illustrations of Conrad's species, Annual report 1841.] N Y St Cab, An Rp 15:194, il (1862)

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62j (and **Whitney,** J. D.) Report of the geological survey of the State of Wisconsin. Volume I. 455 pp, maps [Albany, N. Y.] 1862 [Whitney's part also issued separately. See Whitney, 62]

62k Paleontology of Wisconsin; remarks upon the condition of the fossils in the rocks of the several formations; catalogue of fossils known in the Paleozoic formations of Wisconsin, with observations upon some of the known species and descriptions of several new forms. *In* Report of the geological survey of the State of Wisconsin, vol. I:425–442 (1862)

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62o On the Taconic system of Dr. Emmons. Am Ph Soc, Pr 9:5–7 (1862)

62p ... on the Potsdam sandstone and Hudson River rocks in Vermont. Am J Sc (2) 33:106–108 (1862)

62q ... rejoinder to criticisms ... on his Contributions to paleontology. Am J Sc (2) 33:127–132 (1862)

63 Descriptions of new species of Brachiopoda from the Upper Helderberg, Hamilton, and Chemung groups. N Y St Cab, An Rp 16:19–37 (1863)

63a Observations upon some of the Brachiopoda, with reference to the characters of the genera *Cryptonella, Centronella, Meristella, Trematospira, Rynchospira, Retzia, Leptocoelia,* and allied forms. N Y St Cab, An Rp 16:38–59, il (1863)

63b Note on the genus *Leptocoelia.* N Y St Cab, An Rp 16:59–61, il (1863)

63c Observations upon the genus *Streptorhynchus,* with remarks upon some species heretofore referred to the genera *Strophomena* and *Orthis.* N Y St Cab, An Rp 16:61–66, il (1863)

63d Note on the geological range of the genus *Receptaculites* in American Paleozoic strata. N Y St Cab, An Rp 16:67–69 (1863)

63e Note on the occurrence of *Astylospongia* in the Lower Helderberg rocks. N Y St Cab, An Rp 16:69–70 (1863)

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63f On the occurrence of crustacean remains of the genera *Ceratiocaris* and *Dithyrocaris,* with a notice of some new species from the Hamilton group and Genesee slate. N Y St Cab, An Rp 16 : 71–75, il (1863)

63g Observations upon some spiral-growing fucoidal remains of the Paleozoic rocks of New York. N Y St Cab, An Rp 16 : 76–83, il (1863)

63h Observations upon the genera *Uphantaenia* and *Dictyophyton;* with notices of some species from the Chemung group of New York, and the Waverly sandstone of Ohio. N Y St Cab, An Rp 16 : 84–91, il (1863)

63i The flora of the Devonian period. N Y St Cab, An Rp 16 : 92–118, il (1863)

63j ...fauna of the Potsdam sandstone... of the upper Mississippi Valley. N Y St Cab, An Rp 16 : 119–222, il (1863) Albany Inst, Tr 5 : 93–195, il (1867)

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64 Preliminary notice of some species of Crinoidea from the Waverly sandstone series of Summit Co., Ohio, supposed to be of the age of the Chemung group of New York. N Y St Cab, An Rp 17 : 50–60 (1864)

64a [Remarks on the Catskill group.] Albany Inst, Tr 4 : 307–308 (1864)

64b Notice of some new species of fossils from a locality of the Niagara group, in Indiana ; with a list of identified species from the same place. Albany Inst, Tr 4 : 195–228 (1864)

64c Description of new species of fossils from the Carboniferous limestones of Indiana and Illinois. Albany Inst, Tr 4 : 1–36 (1864)

64d (and **Logan,** W. E.) On the geology of eastern New York. Can Nat n s 1 : 368–369 (1864) Am J Sc (2) 39 : 96–97 (1864)

65 Figures and descriptions of Canadian organic remains ; Decade II, Graptolites of the Quebec group. Can G S : 151 pp, il (1865)

65a On the graptolites of the Quebec group. Can Nat n s 2 : 42–53 (1865)

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66 Descriptions of some new species of Crinoidea and other fossils from the Lower Silurian strata of the age of the Hudson River group and Trenton limestone. 17 pp. Printed in advance from the Report of the State Cabinet for 1866. Albany, 1866 N Y St Mus, An Rp 24 : 205–224 (1872)

66a Observations on some species of *Spirifera.* Am Ph Soc, Pr 10 : 246–254 (1866) Pal N Y 4 : 251–257 (1867)

67 Descriptions and figures of the fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage, and Chemung groups. N Y G S, Pal 4 : 428 pp, il (1867)

67a Notice of volume IV of the Paleontology of New York. N Y St Cab, An Rp 20 : 145–168, il (1867)

67b Introduction to the study of the Graptolitidæ. N Y St Cab, An Rp 20 : 169–240, il (1867)

67c [Observations on genera of Brachiopoda.] N Y St Cab, An Rp 20 : 241–281, il (1867)

67d [Notes on *Paleaster* and other Echinodermata.] N Y St Cab, An Rp 20 : 282–304, il (1867)

67e Account of some new or little known species of fossils from rocks of the age of the Niagara group. N Y St Cab, An Rp 20 : 305–401, il (1867) [Rev ed, 1870]

67f On the geological structure of the southern part of Minnesota (*abst*). Can Nat n s 3 : 120–121 (1866) [1867]

67g On the geological relations of the mastodon and fossil elephant of North America (*abst*). Am Nat 1 : 500 (1867)

68 Report on building stones. 68 pp. Albany, N. Y., 1868

69 Geological history of the North American continent ; a lecture delivered before the American Institute in New York. 24 pp, Albany 1869

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71 Notes and observations on the Cohoes [N. Y.] mastodon. N Y St Cab, An Rp 21 : 99–128 (1871)

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71a [Report on the] geological survey of the State of Wisconsin, 1859–1863. Paleontology, Part Third. Organic remains of the Niagara group and associated limestones. 94 pp, il, Albany 1871 [See also 67e]

71b On the fossil bivalve shells of the Upper Helderberg, Hamilton, Portage, and Chemung groups (*abst*). Albany Inst, Pr 1:125–127 (1871)

71c [On fossil trees from Gilboa, Schoharie Co., N. Y.] Albany Inst, Pr 1: 129–131, 132–134 (1871)

72 (and **Whitfield,** R. P.) Description of new species of fossils from the vicinity of Louisville, Ky., and the Falls of the Ohio. N Y St Mus, An Rp 24:181–200 (1872)

72a (and **Whitfield,** R. P.) Remarks on some peculiar impressions in sandstone of the Chemung group, N. Y. N Y St Mus, An Rp 24:201–204, il (1872)

72b Description of new species of fossils from the Hudson River group, in the vicinity of Cincinnati, Ohio. N Y St Mus, An Rp 24:225–232, il (1872) [Advance print 1871]

72c Reply to a "Note on a question of priority." Am J Sc (3) 4:105–109 (1872)

72d On the occurrence of trunks of *Psaronius* in an erect position, resting on their original bed, in rocks of the Devonian age in the State of New York ... (*abst*). Brit As, Rp 42:sec 103 (1872)

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73 (and **Whitfield,** R. P.) Descriptions of new species of fossils from the Devonian rocks of Iowa. N Y St Cab, An Rp 23:223–239 (1873)

73a (and **Whitfield,** R. P.) Notice of three new species of fossil shells from the Devonian of Ohio. N Y St Cab, An Rp 23:240–241 (1873)

73b (and **Whitfield,** R. P.) Notice of two new species of fossil shells from the Potsdam sandstone of New York. N Y St Cab, An Rp 23:241–242 (1873)

73c [Note on *Trematis.*] N Y St Cab, An Rp 23:243 (1873)

73d Notes on some new or imperfectly known forms among the Brachiopoda, etc. N Y St Cab, An Rp 23:244–247 (1873)

74 Record of borings of Gardner oil well No. 3 at East Shamburg, Pa. N Y St Mus, An Rp 26:31–33 (1874)

74a Descriptions of Bryozoa and corals of the Lower Helderberg group. N Y St Mus, An Rp 26:93–116 (1874)

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74b On the relations of the Niagara and Lower Helderberg formations, and their geographical distribution in the United States and Canada. Am As, Pr 22 pt 2: 321–335 (1874) N Y St Mus, An Rp 27: 117–131 (1875) *Abst,* Can Nat n s 7: 157–159 (1874)

75 Descriptions of new species of Goniatitidae, with a list of previously described species. N Y St Mus, An Rp 27:132–136 (1875)

75a (and **Whitfield,** R. P.) Descriptions of invertebrate fossils, mainly from the Silurian system. Ohio G S, Rp 2 pt 2 Paleontology: 65–157, il (1875)

75b (and **Whitfield,** R. P.) Crinoids of the Genesee slate and Cheming group. Ohio G S, Rp 2 pt 2 Paleontology: 158–161, il (1875)

75c (and **Whitfield,** R. P.) Crinoidea of the Waverly group. Ohio G S, Rp 2 pt 2 Paleontology: 162–179, il (1875)

75d Report [on Hoosac tunnel]. *In* Boston, Hoosac Tunnel, and Western Railroad Company, Report of the Corporators (Mass., H Doc no 9), Appendix: iii–xxiv, Boston 1875

76 The fauna of the Niagara group, in central Indiana. N Y St Mus, An Rp 28: 99-203, il [doc ed, without text, 1876] (1879)

76a Illustrations of Devonian fossils; corals of the Upper Helderberg and Hamilton groups. N Y G S, Pal: 39 pls and expl (1876)

76b Note upon the geological position of the serpentine limestone of northern New York and an inquiry regarding the relations of this limestone to the Eozoon limestones of Canada (*abst*). Am J Sc (3) 12:298–300 (1876)

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78c [Observations on the geological structure of Marthas Vineyard and adjacent islands, Mass.] Albany Inst, Pr 2: 148–149 (1878)

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79 Descriptions of the Gastropoda, Pteropoda, and Cephalopoda of the Upper Helderberg, Hamilton, Portage, and Chemung groups. N Y G S, Pal 5 pt 2 : xv, 492 pp, il [pls vol] (1879)

79a Notice of some remarkable crinoidal forms from the Lower Helderberg group. N Y St Mus, An Rp 28 : 205–210, il (1879)

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